

C

P386Zd

1892/93 UNIVERSITY

OF

PENNSYLVANIA

---

Announcement for Session  
1892-93.

---

**Department of Dentistry.**

THE LIBRARY OF THE

SEP 27 1961

UNIVERSITY OF ILLINOIS PHILADELPHIA

UNIVERSITY OF PENNSYLVANIA PRESS

1892



UNIVERSITY OF PENNSYLVANIA

UNIVERSITY  
OF  
PENNSYLVANIA

---

Announcement for Session  
1892-93

---

**Department of Dentistry.**

---

PHILADELPHIA  
UNIVERSITY OF PENNSYLVANIA PRESS

1892

**1892.****JANUARY.**

S . 3 10 17 24 31  
 M . 4 11 18 25  
 T . 5 12 19 26 .  
 W . 6 13 20 27 .  
 T . 7 14 21 28 .  
 F 1 8 15 22 29 .  
 S 2 9 16 23 30 .

**FEBRUARY.**

S . 7 14 21 28  
 M 1 8 15 22 29  
 T 2 9 16 23 .  
 W 3 10 17 24 .  
 T 4 11 18 25 .  
 F 5 12 19 26 .  
 S 6 13 20 27 .

**MARCH.**

S . 6 13 20 27  
 M . 7 14 21 28  
 T 1 8 15 22 29  
 W 2 9 16 23 30  
 T 3 10 17 24 31  
 F 4 11 18 25 .  
 S 5 12 19 26 .

**APRIL.**

S . 3 10 17 24  
 M . 4 11 18 25  
 T . 5 12 19 26 .  
 W 6 13 20 27 .  
 T 7 14 21 28 .  
 F 1 8 15 22 29 .  
 S 2 9 16 23 30 .

**MAY.**

S 1 8 15 22 29  
 M 2 9 16 23 30  
 T 3 10 17 24 31  
 W 4 11 18 25 .  
 T 5 12 19 26 .  
 F 6 13 20 27 .  
 S 7 14 21 28 .

**JUNE.**

S . 5 12 19 26  
 M . 6 13 20 27  
 T . 7 14 21 28  
 W 1 8 15 22 29  
 T 2 9 16 23 30  
 F 3 10 17 24 .  
 S 4 11 18 25 .

**1892.****JULY.**

S . 3 10 17 24 31  
 M . 4 11 18 25 .  
 T . 5 12 19 26 .  
 W . 6 13 20 27 .  
 T . 7 14 21 28  
 F 1 8 15 22 29 .  
 S 2 9 16 23 30 .

**AUGUST.**

S . 7 14 21 28  
 M 1 8 15 22 29  
 T 2 9 16 23 30  
 W 3 10 17 24 31  
 T 4 11 18 25 .  
 F 5 12 19 26 .  
 S 6 13 20 27 .

**SEPTEMBER.**

S . 4 11 18 25  
 M . 5 12 19 26  
 T . 6 13 20 27  
 W . 7 14 21 28  
 T 1 8 15 22 29  
 F 2 9 16 23 30  
 S 3 10 17 24 .

**OCTOBER.**

S . 2 9 16 23 30  
 M . 3 10 17 24 31  
 T . 4 11 18 25 .  
 W . 5 12 19 26  
 T . 6 13 20 27  
 F . 7 14 21 28 .  
 S 1 8 15 22 29 .

**NOVEMBER.**

S . 6 13 20 27  
 M . 7 14 21 28  
 T 1 8 15 22 29  
 W 2 9 16 23 30  
 T 3 10 17 24 .  
 F 4 11 18 25 .  
 S 5 12 19 26 .

**DECEMBER.**

S . 4 11 18 25  
 M . 5 12 19 26  
 T . 6 13 20 27  
 W . 7 14 21 28  
 T 1 8 15 22 29  
 F 2 9 16 23 30  
 S 3 10 17 24 31

**1893.****JANUARY.**

S 1 8 15 22 29  
 M 2 9 16 23 30  
 T 3 10 17 24 31  
 W 4 11 18 25 .  
 T 5 12 19 26 .  
 F 6 13 20 27 .  
 S 7 14 21 28 .

**FEBRUARY.**

S . 5 12 19 26  
 M . 6 13 20 27  
 T . 7 14 21 28  
 W 1 8 15 22 .  
 T 2 9 16 23 .  
 F 3 10 17 24 .  
 S 4 11 18 25 .

**MARCH.**

S . 5 12 19 26  
 M . 6 13 20 27  
 T . 7 14 21 28  
 W 1 8 15 22 29  
 T 2 9 16 23 30  
 F 3 10 17 24 31  
 S 4 11 18 25 .

**APRIL.**

S . 2 9 16 23 30  
 M . 3 10 17 24 .  
 T . 4 11 18 25 .  
 W . 5 12 19 26 .  
 T . 6 13 20 27 .  
 F . 7 14 21 28 .  
 S 1 8 15 22 29 .

**MAY.**

S . 7 14 21 28  
 M 1 8 15 22 29  
 T 2 9 16 23 30  
 W 3 10 17 24 31  
 T 4 11 18 25 .  
 F 5 12 19 26 .  
 S 6 13 20 27 .

**JUNE.**

S . 4 11 18 25  
 M . 5 12 19 26  
 T . 6 13 20 27  
 W . 7 14 21 28  
 T 1 8 15 22 29  
 F 2 9 16 23 30  
 S 3 10 17 24

# UNIVERSITY CALENDAR FOR 1891-1892.

1891.

Sept. 21, Monday,	Entrance Examinations begin, 9 A.M.
“ 25, Friday,	Announcement of Results of Entrance Examinations, 12 M.
Oct. 1, Thursday,	First Term begins : College Department, and Departments of Medicine, Dentistry, Veterinary Medicine, 10 A.M.
Nov. 25, Wednesday,	Thanksgiving Holiday begins, 5 P.M.
“ 30, Monday,	“ “ ends, 9 A.M.
Dec. 23, Wednesday,	Christmas Recess begins, 5 P.M.
1892.	
Jan. 4, Monday,	Christmas Recess ends, 9 A.M.
“ 18, Monday,	Mid-Year Examinations begin : College Department, 9 A.M.
Feb. 1, Monday,	Second Term begins : College Department, 9 A.M.
“ 22, Monday,	Washington's Birthday. Holiday, all Departments. Opening of new Laboratory of Hygiene, 3.30 P.M.
April 13, Wednesday,	Easter Holiday begins : College Department, 5 P.M.
“ 20, Wednesday,	Easter Holiday ends, College Department, 9 A.M.
“ 29, Friday,	Last day for receipts of Theses and Prize Essays : College Department.
May 2, Monday,	Senior Examinations begin : College Department, 9 A.M.
“ 6, Friday,	Commencement : Medical and Dental Departments.
“ 30, Monday,	Final Examinations begin : College Department, 9 A.M.
June 15, Wednesday,	Announcement of Results of Examination : College Department, 10 A.M.
“ 16, Thursday,	Commencement : College Department, and Departments of Law, Veterinary Medicine, and Philosophy, 11 A.M.
“ 20, Monday,	Entrance Examinations begin : College Department, 9 A.M.
“ 23, Thursday,	Examinations for advanced standing: College Department, 9 A.M.
“ 24, Friday,	Announcement of Results of Entrance Examination : College Department, 12 M.

## SUMMER VACATION.

Oct. 3, Monday,	First Term begins : College Department, 10 A.M.
" 3, Monday,	Winter Session begins : Departments of Medicine, Dentistry, Veterinary Medicine and Auxiliary Medicine, 12 M.
" 3, Monday,	First Term begins : Course in Music, 2 P.M.
" 3, Monday,	First Term begins: Department of Law, 4 P.M.
Nov. 23, Wednesday,	Thanksgiving Holiday begins : All Departments, 5 P.M.
Dec. 23, Friday,	Christmas Recess begins: College Department and Department of Law, 5 P.M. Departments of Medicine, Dentistry and Veterinary Medicine, 5.30 P.M.

1893.

Jan. 4, Wednesday,	Christmas Recess ends : College Department, 9 A.M.
Feb. 1, Wednesday,	First Term ends : College Department and Department of Law.

# University of Pennsylvania.

---

A pamphlet, called: *Proposals Relative to the Education of Youth in Pennsylvania*, written in 1749 by Dr. FRANKLIN, led to an association, by certain citizens of Philadelphia, for the purpose of founding a School on the lines suggested by that wise counsellor. Over two thousand pounds, equivalent to at least forty thousand dollars at the present time, were raised; a building, which had been erected to accommodate the thronged congregations of the celebrated Whitfield, was purchased; and in 1751 the Academy, consisting of an English, a Mathematical, and a Latin School, each under a Master, with subordinate tutors and ushers, was formally opened. So successful was the undertaking that in two years the Trustees applied to the Proprietaries for a Charter, which was thus granted:—

THOMAS PENN and RICHARD PENN, true and absolute proprietors and governors in chief of the province of Pennsylvania and counties of Newcastle, Kent and Sussex, on Delaware, To all persons to whom these presents shall come, greeting: *Whereas*, the well-being of a society depends on the education of their youth, as well as, in great measure, the eternal welfare of every individual, by impressing on their tender minds principles of morality and religion, instructing them in the several duties they owe to the society in which they live, and one towards another, giving them the knowledge of languages, and other parts of useful learning necessary thereto, in order to render them serviceable in the several public stations to which they may be called. *And whereas*, it hath been represented to us by Thomas Lawrence, William Allen, John Inglis, Tench Francis, William Masters, Lloyd Zachary, Samuel M'Call, junior, Joseph Turner, Benjamin Franklin, Thomas Leech, William Shippen, Robert Strettell, Philip Syng, Charles Willing, Phineas Bond, Richard Peters, Abraham Taylor, Thomas Bond, Joshua Maddox,

William Plumsted, Thomas White, William Coleman, Isaac Norris, and Thomas Cadwalader, of our city of Philadelphia, gentlemen, that for the erecting, establishing, and maintaining an academy within our said city, as well to instruct youth for reward, as poor children whose indigent and helpless circumstances demand the charity of the opulent part of mankind, several benevolent and charitable persons have generously paid, and by subscriptions promised hereafter to pay, into their hands as trustees, for the use of the said academy, divers sums of money, which sums already paid, they, the said trustees, have expended in the purchase of lands well situated, and a building commodious for the uses aforesaid, within our said city in maintaining an academy there as well for the instruction of poor children on charity, as others whose circumstances have enabled them to pay for their learning, for some time past, and in furnishing the said academy with books, maps, mathematical instruments, and other necessities of general use therein, according to the intentions of the donors. *And whereas*, the said trustees to facilitate the progress of so good a work, and to perfect and perpetuate the same, have humbly besought us to incorporate them and their successors.

*Now know ye*, That we favouring such pious, useful, generous, and charitable designs, hoping, through the favour of Almighty God, this academy may prove a nursery of virtue and wisdom, and that it will produce men of dispositions and capacities beneficial to mankind in the various occupations of life ; but more particularly suited to the infant state of North America in general, and for other causes and considerations us hereto specially moving, *have granted*, ordained, declared, constituted, and appointed, and by these presents *we do* for us, our heirs, and successors grant, ordain, declare, constitute, and appoint, That the said Thomas Lawrence, and others, as before recited, and such others, as shall be from time to time chosen, nominated or elected in their place and stead, shall be one community, corporation and body politic, to have continuance for ever, by the name of The Trustees of the Academy and Charitable School in the Province of Pennsylvania.

*In witness* whereof, we have caused these our letters to be made

patent; in the twenty-seventh year of the reign of our sovereign lord, George the second, who now is king of Great Britain, France, and Ireland, etc., and in the year of our Lord, one thousand seven hundred and fifty-three.

Under the skilful training of the learned Rev. William Smith the highest class in this Academy attained that proficiency which, in a College course, would entitle it to a Degree. Accordingly, two years later the Proprietaries were again petitioned to convert the Academy into a College with the power of conferring Collegiate Degrees. The petition was granted substantially as follows:

Thomas Penn and Richard Penn, true and absolute proprietaries of the province of Pennsylvania, etc., to all persons to whom these presents shall come, greeting :

*And whereas* the said trustees have, . . . . represented, That since our granting our said recited charter, the academy therein mentioned, by the blessing of Almighty God, is greatly improved, being now well provided with masters, not only in the learned languages, but also in the liberal arts and sciences, and that one class of hopeful students has now attained to that station in learning and science, by which, in all well-constituted seminaries, youth are entitled to their first *degree*. *Now know ye also*, That we do hereby, for us, our heirs and successors, give and grant full power and authority to the said trustees and their successors, . . . . to constitute and appoint a Provost and Vice-Provost of the said college and academy, who shall be severally named and styled Provost and Vice-Provost of the same. And also to nominate and appoint professors in all the liberal arts and sciences, the ancient languages and the English tongue, which Provost, Vice-Provost, and Professors, so constituted and appointed, shall be known and distinguished as one body and faculty, by the name of *The Provost, Vice-Provost, and Professors of the College and Academy of Philadelphia, in the province of Pennsylvania*; and by that name shall be capable of exercising such powers and authorities as the said trustees and their successors shall think necessary to delegate to them, for the discipline and government of the said college, academy, and charitable school: *Provided always*, That the said trustees the Provost

and Vice-Provost, and each Professor, before they shall exercise their several and respective powers or authorities, offices, and duties, do and shall take and subscribe the three first written oaths appointed to be taken and subscribed, in and by one act of Parliament, passed in the first year of the reign of our late sovereign lord, George the first, intituled, An Act for the further security of his Majesty's Person and Government ; and the Succession of the Crown in the Heirs of the late Princess Sophia, being protestants, and for extinguishing the hopes of the pretended Prince of Wales, and his open and secret abettors; and shall also make and subscribe the declaration appointed to be made and subscribed by one other act of parliament, passed in the twenty-fifth year of the reign of king Charles the second, intituled, An Act for preventing dangers which may happen, etc.

. . . . . excepting only the people called Quakers, who, upon taking, making, and subscribing the affirmations and declarations appointed to be taken, made, and subscribed, by the acts of General Assembly of the province of Pennsylvania, to qualify them for the exercise of civil offices, shall be admitted to the exercise of all and every the powers, authorities, offices, and duties above mentioned, any thing in this provision to the contrary notwithstanding . . . . . *And we do hereby*, at the desire and request of the said trustees, constitute and appoint the Reverend William Smith, M.A., to be the first and present Provost of the said college and academy, and the Reverend Francis Allison, M.A., to be the first and present Vice-Provost of the same.

. . . . . *And we do further, for us, our heirs and successors, give and grant to the trustees of the said college and academy*, That for animating and encouraging the students thereof to a laudable diligence, industry, and progress in useful literature and science, they and their successors, met together on such day or days as they shall appoint for that purpose, shall have full power and authority, by the provost, . . . . . to admit any the students within the said college and academy, or any other person or persons meriting the same, to any degree or degrees, in any of the faculties, arts, and sciences, to which persons are usually admitted, in any or either of the universities or colleges in the kingdom of Great Britain. . . . . *Provided always*, and it is

hereby declared to be our true meaning and express will, That no student or students, within the said college and academy, shall ever, or at any time or times hereafter, be admitted to any degree or degrees, until such student or students have been first recommended and presented as worthy of the same, by a written mandate, given under the hands of at least thirteen of the trustees of the said college and academy . . . . .

In testimony whereof, we have caused these our letters to be made patent, and the great seal of our said province to be hereunto affixed . . . . . this fourteenth day of May, in the twenty-eighth year of the reign of our sovereign lord, George the second, king of Great Britain, France, and Ireland, etc., and in the year of our Lord, one thousand seven hundred and fifty-five.

The First Commencement was held May 17th, 1757, when Paul Jackson, Jacob Duché, Francis Hopkinson, Samuel Magaw, Hugh Williamson, James Latta, and John Morgan received the Degree of Bachelor of Arts. In the agitated times that followed, during the wars with the French, the Provost, Mr. Smith, opposed so vehemently the non-resistance policy of the legislature of Pennsylvania, that by an arbitrary stretch of power he was thrown into prison. In faithfulness to his duties as Provost, however, he received his classes in gaol, and continued his instructions to them there while still a prisoner. Finally he was set at liberty, for the purpose of going to England to make a personal appeal to the king, and his kindly reception there was not lessened by the strain to which his loyalty at home had been put. Oxford conferred on him the Degree of Doctor of Divinity. On his return home so highly did his fellow-citizens rate his influence abroad, that when in 1761 the Trustees were hard bestead they sent him back to England to raise funds for an endowment. It happened that King's College (now Columbia) in New York was in similar straits and had resolved on similar efforts. The two commissioners met in England and amicably resolved to "divide the land between them," and share the proceeds. Through the influence of the Archbishop of Canterbury they received a circular letter from the king to all churches, and succeeded in raising a very considerable endowment for each college.

On Dr. Smith's return, as it appears on the minutes of the

14th of June, 1764, a letter was received from the Archbishop of Canterbury, Thomas and Richard Penn, and the Rev. Samuel Chandler, D.D., addressed to the trustees, in which the trustees are congratulated on the success of Dr. Smith's, the provost's, collection in England, and advised of what would be further necessary to the due improvement of the collection and the future prosperity of the institution. "That the institution was originally founded and carried on for the general benefit of a mixed body of people—that on the king's brief it is represented as a seminary that would be of great use for securing capable instructors and teachers, as well for the service of the society for propagating the gospel in foreign parts, as for other protestant denominations in the colonies.—That at the time of making the collection, the provost was a clergyman of the Church of England—the vice-provost, a Presbyterian—a principal professor, a Baptist, with other useful professors and tutors, all carrying on the education of youth with great harmony, and people of various denominations have heretofore contributed liberally and fully.—That jealousies had arisen lest the foundation should be narrowed, and some party exclude the rest, or put them on a worse footing than they have been or were at the time of the collection, which would be unjust and productive of contentions unfriendly to religion. It was therefore recommended to the trustees, by the writers of the letter (who had a principal share in procuring the collection), to make a fundamental rule or declaration, to prevent inconvenience of this kind, and in doing which, they were advised that the more closely they kept in view the plan on which the seminary was at the time of the royal brief, and on which it was carried on from the beginning, so much the less cause would any party have to be dissatisfied."

A committee having been appointed to frame a fundamental *Resolve* or declaration, in consequence of the letter, the following was reported and adopted:

"The trustees being ever desirous to promote the peace and prosperity of this seminary, and to give satisfaction to all its worthy benefactors, have taken the above letter into their serious consideration, and perfectly approving the sentiments therein contained, do order the same to be inserted in their books, that

it may remain perpetually *declaratory* of the present *wide* and excellent plan of this institution, which hath not only met with the approbation of the great and worthy personages above mentioned, but even the royal patronage of his majesty himself. They further *declare* that they will keep this plan closely in their view, and use their *utmost endeavors* that the same *be not narrowed*, nor the members of the church of Engand, or those dissenting from them (*in any future election to the principal offices mentioned in the aforesaid letter*), be put on *any worse footing* in this seminary, than they were *at the time of obtaining the royal brief*. They subscribe this with their names, and ordain that the same be read and subscribed by every new trustee that shall hereafter be elected, before he takes his seat at the board."

Perhaps no more striking instance can be given of the distortion to which men's minds were subject in those days of political commotion than the fact that in 1779 this resolution was construed by the Legislature into a "narrowing of the foundation," and seized as a pretext for confiscating all the rights and properties of the College, which were bestowed upon a new organization called in its charter the "Trustees of the University of the State of Pennsylvania." Ten years later, these rights and properties were all restored, and in 1791 an act was passed amalgamating the old College in the new University, as follows :

WHEREAS, the trustees of the University of the State of Pennsylvania, and the trustees of the College, Academy, and Charitable School of Philadelphia, in the commonwealth of Pennsylvania, by their several petitions have set forth, that they have agreed to certain terms of union of the said two institutions, which are as follows :

*First.* That the name of the institution be "*The University of Pennsylvania*," and that it be stationed in the city of Philadelphia.

*Second.* That each of the two boards shall elect, from among themselves, twelve persons, who, with the governor for the time being, shall constitute the board of trustees of the University of Pennsylvania ; and that the governor shall be president.

Sect. 2. *And be it further enacted*, That the said twenty-four persons so elected and certified, together with the governor for

the time being, who shall always be president, and their successors, be, and they are hereby made and constituted a corporation and body politick, in law and in fact, to have continuance for ever by the aforesaid name, style, and title of "The Trustees of the University of Pennsylvania," and that the said university shall at all times be stationed in the city of Philadelphia.

Thus established, the University has advanced with the times, and now comprises the following departments:

THE COLLEGE DEPARTMENT, including

THE COURSE IN ARTS,

THE COURSES IN SCIENCE,

(The Towne Scientific School),

THE COURSE IN ARCHITECTURE.

THE COURSES IN NATURAL HISTORY,

(The School of Biology),

THE COURSE IN FINANCE AND ECONOMY,

(The Wharton School),

THE COURSE IN MUSIC.

THE DEPARTMENT OF MEDICINE.

THE UNIVERSITY HOSPITAL.

THE DEPARTMENT OF LAW.

THE AUXILIARY DEPARTMENT OF MEDICINE.

THE DEPARTMENT OF DENTISTRY.

THE DEPARTMENT OF PHILOSOPHY.

THE DEPARTMENT OF VETERINARY MEDICINE.

THE DEPARTMENT OF PHYSICAL EDUCATION.

THE MUSEUM OF ARCHÆOLOGY AND PALÆONTOLOGY.

THE DEPARTMENT OF HYGIENE.

THE GRADUATE DEPARTMENT FOR WOMEN.

PROVOST OF THE UNIVERSITY,  
WILLIAM PEPPER, M.D., LL.D.,  
President *pro tempore* of the Board of Trustees.

---

## TRUSTEES.

---

THE GOVERNOR OF PENNSYLVANIA, *ex-officio* President of  
the Board.

FREDERICK FRALEY, LL.D.,  
REV. CHARLES W. SCHAEFFER, D.D., LL.D.,  
WILLIAM SELLERS,  
J. VAUGHAN MERRICK,  
RICHARD WOOD,  
S. WEIR MITCHELL, M.D., LL.D.,  
CHARLES C. HARRISON,  
REV. GEORGE DANA BOARDMAN, D.D., LL.D.,  
WILLIAM HUNT, M.D.,  
HORACE HOWARD FURNESS, PH.D., LL.D.,  
WHARTON BARKER,  
SAMUEL DICKSON,  
HON. JOHN SCOTT,  
JAMES MACALISTER, LL.D.,  
JOHN C. SIMS,  
HENRY H. HOUSTON,  
JOSEPH D. POTTS,  
HON. HENRY REED,  
HON. SAMUEL W. PENNYPACKER, LL.D.,  
RT. REV. OZI WILLIAM WHITAKER, D.D.,  
JOHN BARNARD GEST,  
JOSEPH S. HARRIS,  
ARTHUR V. MEIGS, M.D.,  
WALTER GEORGE SMITH.

REV. JESSE Y. BURK, Secretary, University.

EDWARD W. MUMFORD, Assistant Secretary, University.

RICHARD WOOD, Treasurer *pro tem.*, 400 Chestnut St.

# CHAIRMEN OF STANDING COMMITTEES FOR THE YEAR 1891-92.

## WAYS AND MEANS:

MR. HARRISON, . . . . . 101 South Front Street.

## BUILDINGS, ESTATES AND PROPERTY:

MR. WOOD, . . . . . 400 Chestnut Street.

## LIBRARY:

DR. FURNESS, . . . . . 222 West Washington Square.

## DEPARTMENT OF ARTS:

MR. FRALEY, . . . . . 1000 Walnut Street.

## DEPARTMENT OF MEDICINE:

DR. MITCHELL, . . . . . 1524 Walnut Street.

## DEPARTMENT OF LAW:

MR. SCOTT, . . . . . 3808 Chestnut Street.

## DEPARTMENT OF SCIENCE:

MR. MERRICK, . . . . . Roxboro'.

## DEPARTMENT OF FINANCE AND ECONOMY:

MR. BARKER, . . . . . 429 Chestnut Street.

## DEPARTMENT OF VETERINARY MEDICINE:

DR. HUNT, . . . . . 1300 Spruce Street.

## DEPARTMENT OF PHYSICAL EDUCATION:

MR. SIMS, . . . . . 233 South 4th Street.

## DEPARTMENT OF BIOLOGY:

DR. MACALISTER, . . . . . 119 North 18th Street.

## DEPARTMENT OF PHILOSOPHY:

MR. FRALEY, . . . . . 1000 Walnut Street.

## DEPARTMENT OF DENTISTRY:

DR. MEIGS, . . . . . 1322 Walnut Street.

## OFFICERS.\*

	Residence.
WILLIAM PEPPER, M.D., LL.D., PROVOST OF THE UNIVERSITY.	1811 Spruce St.
E. OTIS KENDALL, LL.D., VICE-PROVOST.	3826 Locust St.
FRANCIS A. JACKSON, A.M., Professor of the Latin Language and Literature.	University.
E. OTIS KENDALL, LL.D., THOMAS A. SCOTT Professor of Mathematics, and Honorary Dean of the College Faculty.	3826 Locust St.
J. PETER LESLEY, LL.D., Emeritus Professor of Geology and Mining.	1008 Clinton St.
RICHARD A. F. PENROSE, M.D., LL.D., Emeritus Professor of Obstetrics and of the Dis- eases of Women and Children.	1331 Spruce St.
ALFRED STILLÉ, M.D., LL.D., Emeritus Professor of the Theory and Practice of Medicine and of Clinical Medicine.	3900 Spruce St.
HARRISON ALLEN, M.D., Professor of Zoölogy and Comparative Anatomy.	1933 Chestnut St.
HORATIO C. WOOD, M.D., LL.D., Professor of Materia Medica, Pharmacy and General Therapeutics, and Clinical Professor of Nervous Diseases.	1925 Chestnut St.
JOHN J. REESE, M.D., Emeritus Professor of Medical Jurisprudence, including Toxicology.	Lansdowne, Pa.
CHARLES J. STILLÉ, LL.D., Emeritus JOHN WELSH CENTENNIAL Professor of History and English Literature.	2201 St. James's Place.
* OSWALD SEIDENSTICKER, PH.D. (Göttingen), Litt.D., Professor of the German Language and Literature.	309 S. 40th St.

---

\* Arranged, except Provost and Vice-Provost, in order of accession to office.

- J. I. CLARK HARE, LL.D.,  
Emeritus Professor of the Institutes of Law,  
including, inter alia, International, Constitu-  
tional, Commercial and Civil Law. 118 S. 22d St.
- D. HAYES AGNEW, M.D., LL.D.,  
Emeritus Professor of Surgery, and Honorary Pro-  
fessor of Clinical Surgery. 1601 Walnut St.
- REV. ROBERT ELLIS THOMPSON, D.D.,  
JOHN WELSH CENTENNIAL Professor of History  
and English Literature. Wyncote P. O.
- GEORGE F. BARKER, PH.B., M.D.,  
Professor of Physics. 3909 Locust St.
- LEWIS M. HAUPT, A.M., C.E.,  
Professor of Civil Engineering. 107 N. 35th St.
- WILLIAM PEPPER, M.D., LL.D.,  
Professor of the Theory and Practice of Medicine  
and of Clinical Medicine. 1811 Spruce St.
- WILLIAM GOODELL, M.D.,  
Professor of Gynæcology. 1418 Spruce St.
- WILLIAM F. NORRIS, M.D.,  
Professor of Ophthalmology, and Clin-  
ical Professor of Diseases of the Eye. 1526 Locust St.
- JAMES PARSONS, A.M.,  
Professor of Commercial Law, Contracts, and  
Decedents' Estates. 1534 Locust St.
- GEORGE A. KOENIG, PH.D. (Heidelberg),  
Professor of Mineralogy and Metallurgy. 4701 Springfield Ave.
- JAMES TYSON, M.D.,  
Professor of Clinical Medicine, and Dean of the  
Medical Faculty. 1506 Spruce St.
- LOUIS A. DUHRING, M.D.,  
Clinical Professor of Skin Diseases. 1411 Spruce St.
- HUGH A. CLARKE, MUS. DOC.,  
Professor of the Science of Music. 223 S. 38th St.
- JOSEPH T. ROTHROCK, B.S., M.D.,  
Professor of Botany. West Chester, Pa.
- THEODORE G. WORMLEY, M.D., LL.D.,  
Professor of Chemistry and Toxicology. 1409 Spruce St.
- JOHN ASHHURST, JR., M.D.,  
JOHN RHEA BARTON Professor of Surgery,  
and Professor of Clinical Surgery. 2000 W. De Lancey Place.

- CHARLES J. ESSIG, M.D., D.D.S.,  
Professor of Mechanical Dentistry and Metal-  
lurgy. 1700 Locust St.
- EDWIN T. DARBY, M.D., D.D.S.,  
Professor of Operative Dentistry and Dental His-  
tory. 1513 Walnut St.
- MORTON W. EASTON, PH.D. (Yale),  
Professor of Comparative Philology, and Adjunct  
Professor of Greek. 224 S. 43d St.
- JAMES TRUMAN, D.D.S.,  
Professor of Dental Pathology, Therapeutics and  
Materia Medica, and Dean of the Dental  
Faculty. 3243 Chestnut St.
- EDMUND J. JAMES, PH.D. (Halle),  
Professor of Finance and Administration. 3722 Locust St.
- JOHN BACH McMASTER, A.M.,  
Professor of American History. Highland Ave., Chestnut Hill.
- GEORGE TUCKER BISPHAM, A.M.,  
Professor of Equity Jurisprudence. 402 Walnut St.
- ROBERT MEADE SMITH, M.D.,  
Professor of Comparative Physiology. 332 S. 21st St.
- HORACE JAYNE, M.D.,  
Professor of Vertebrate Morphology, and Dean  
of the College Faculty, and of the Faculty of  
Philosophy. 1826 Chestnut St.
- WILLIAM L. ZUILL, M.D., D.V.S.,  
Professor of Veterinary Surgery and Obstetrics. 1526 Race St.
- REV. GEORGE S. FULLERTON, A.M., B.D.,  
ADAM SEYBERT Professor of Intellectual and  
Moral Philosophy. 311 S. 40th St.
- EDWARD T. REICHERT, M.D.,  
Professor of Physiology. W. Springfield Ave., Chestnut Hill.
- J. WILLIAM WHITE, M.D.,  
Professor of Clinical Surgery. 1810 Rittenhouse Square.
- REV. JOHN P. PETERS, PH.D. (Yale),  
Professor of Hebrew. 225 W. 99th St., New York.
- JOHN A. RYDER, PH.D.,  
Professor of Comparative Embryology. 220 De Kalb Sq.
- DANIEL G. BRINTON, M.D.,  
Professor of American Archæology and Lin-  
guistics. 2041 Chestnut St.
- REV. HERMANN V. HILPRECHT, PH.D. (Leipzig),  
Professor of Assyrian, and Curator of Babylonian  
Antiquities. 1031 Walnut St.

- MORRIS JASTROW, JR., PH.D. (Leipzig),  
Professor of Arabic, and Assistant Librarian. 925 N. 8th St.
- WILLIAM POWELL WILSON, Sc.D.,  
Professor of the Anatomy and Physiology of  
Plants. 640 N. 32d St.
- GREGORY B. KEEN, A.M.,  
Librarian. 3237 Chestnut St.
- C. STUART PATTERSON, A.M.,  
Professor of Constitutional Law and the Law of  
Real Estate and Conveyancing, and Dean of  
the Law Faculty. N. E. cor. Broad and Chestnut Sts.
- HENRY W. SPANGLER, WHITNEY Professor of  
Dynamical Engineering. 4815 Springfield Ave.
- CHARLES S. DOLLEY, M.D.,  
Professor of General Biology. 202 De Kalb Sq.
- BARTON COOKE HIRST, M.D.,  
Professor of Obstetrics. 248 South 17th St.
- WILLIAM A. LAMBERTON, A.M.,  
Professor of the Greek Language and Literature. 4504 Pine St.
- SIMON N. PATTEN, PH.D. (Halle),  
Professor of Political Economy. 221 De Kalb Square.
- FELIX E. SCHELLING, A.M.,  
Professor of English Literature. 3455 Walnut St.
- EDGAR F. SMITH, PH.D. (Göttingen),  
Professor of Chemistry. 1115 S. 34th St.
- JOHN GUITERAS, M.D.,  
Professor of General Pathology and Morbid  
Anatomy. 3914 Sansom St.
- DE FOREST WILLARD, M.D.,  
Clinical Professor of Orthopaedic Surgery. 1818 Chestnut St.
- GEORGE A. PIERSOL, M.D.,  
Professor of Anatomy. 48th St. and Chester Ave.
- JOHN H. MUSSER, M.D.,  
Assistant Professor of Clinical Medicine.  
N. E. Cor. 40th and Locust Sts.
- SAMUEL S. HOLLINGSWORTH,  
Professor of the Law of Contracts and Corpora-  
tions, and Pleading at Law. 714 Walnut St.
- GEORGE S. GRAHAM,  
Professor of Criminal Law. 431 Walnut St.
- ARTHUR W. GOODSPEED, PH.D.,  
Assistant Professor of Physics. University.

- GEORGE E. FISHER, A.B.,  
Assistant Professor of Mathematics.  
6032 Cresheim Road, Chestnut Hill.
- JOHN MARSHALL, M.D., NAT. SC.D. (Tübingen),  
Assistant Professor of Chemistry, and Dean of  
the Veterinary Faculty. 1409 Spruce St.
- EDWIN S. CRAWLEY, B.S.,  
Assistant Professor of Mathematics.  
Springfield Ave., Chestnut Hill.
- SIMON J. J. HARGER, V.M.D.,  
Professor of Veterinary Anatomy and  
Zoötechnics. 205 N. 20th St.
- EDWARD D. COPE, PH.D.,  
Professor of Mineralogy and Geology. 2102 Pine St.
- GEORGE H. HORN, M.D.,  
Professor of Entomology. 874 N. 4th St.
- JOHN S. BILLINGS, M.D., LL.D.,  
PEPPER Professor of Hygiene, Director of the  
Hospital, and of the Institute of Hygiene. University.
- RANDOLPH FARIES, M.D.,  
Director of Physical Education. 2200 Pine St.
- THEOPHILUS P. CHANDLER, JR. (Architect),  
Lecturer on Architecture. 328 Chestnut St.
- CHARLES E. DANA,  
Professor of Art. 2013 Delancey Place.
- EDWARD P. CHEYNEY, A.M.,  
Assistant Professor of History. 4301 Haverford St.
- \*ROLAND P. FALKNER, PH.D. (Halle),  
Associate Professor of Statistics. 36 Tulpehocken St., Gtn.
- FRANCIS N. THORPE, PH.D.,  
Professor of American Constitutional History. 3731 Locust St.
- WARREN P. LAIRD,  
Professor of Architecture. 3731 Spruce St.
- B. ALEXANDER RANDALL, M.D.,  
Clinical Professor of the Diseases of Children. 1806 Chestnut St.
- GEORGE M. DALLAS,  
Professor of Torts, Evidence and Practice-at-Law. 1514 Pine St.
- J. P. CROZER GRIFFITH, M.D.,  
Clinical Professor of Diseases of Children. 110 S. 18th St.
- JOHN B. DEEVER, M.D.,  
Assistant Professor of Applied Anatomy. 120 S. 18th St.

---

\* Absent on leave.

EDWARD MARTIN, M.D., Clinical Professor of Genito-Urinary Diseases.	415 S. 15th St.
LEONARD PEARSON, B.S., V.M.D., Assistant Professor of the Theory and Practice of Veterinary Medicine.	2200 Pine St.
ROLAND G. CURTIN, M.D., Lecturer on Physical Diagnosis, and Assistant Physician in University Hospital.	22 S. 18th St.
CHARLES K. MILLS, M.D., Lecturer on Mental Diseases.	1909 Chestnut St.
SAMUEL D. RISLEY, M.D., Lecturer on Ophthalmology.	1722 Walnut St.
ADOLPH W. MILLER, M.D., Lecturer on Materia Medica and Pharmacy, and Instructor in Practical Pharmacy.	860 N. 5th St.
HENRY F. FORMAD, M.D., Demonstrator of Morbid Anatomy and Patho- logical Histology, Lecturer on Experimental Pathology.	3535 Locust St.
CARL SEILER, M.D., Lecturer in Laryngology.	1204 Walnut St.
ALBERT L. A. TOBOLDT, M.D., Assistant Instructor in Practical Pharmacy.	207 Vine St.
HENRY R. WHARTON, M.D., Demonstrator of Surgery, Assistant Surgeon in University Hospital, and Lecturer on the Sur- gical Diseases of Children.	112 S. 18th St.
RICHARD H. HARTE, M.D., Demonstrator of Osteology, and Assistant Sur- geon in University Hospital.	1503 Spruce St.
ROBERT HUEY, D.D.S., Lecturer on Operative Dentistry.	330 S. 15th St.
WILLIAM DIEHL, D.D.S., Demonstrator of Operative Dentistry.	1513 Walnut St.
FRANCIS X. DERCUM, M.D., Instructor in Nervous Diseases.	810 N. Broad St.
THOMAS R. NEILSON, M.D., Assistant Demonstrator of Anatomy, and Lecturer on Diseases of the Rectum.	223 S. 17th St.
EDMUND W. HOLMES, M.D., Demonstrator of Anatomy.	1523 Green St.
JUDSON DALAND, M.D., Instructor in Clinical Medicine.	319 S. 18th St.

- ALEXANDER GLASS, V.S.,  
Lecturer on the Theory and Practice of Canine  
Medicine. 2025 Bainbridge St.
- WILLIAM L. TAYLOR, M.D.,  
Instructor in Clinical Gynæcology. 1440 N. 12th St.
- GWILLYM G. DAVIS, M.D.,  
Assistant Demonstrator of Surgery. 1817 Mt. Vernon St.
- \* HUGO A. RENNERT, B.S., Ph.D.,  
Instructor in French and German. 539 N. 13th St.
- W. FRANK HAEHNLEN, M.D.,  
Instructor in and Lecturer on Clinical and Opera-  
tive Obstetrics. 1421 N. Broad St.
- JOHN K. MITCHELL, M.D.,  
Instructor in Clinical Medicine. 1524 Walnut St.
- JAMES E. LODER, D.D.S.,  
Assistant Demonstrator of Operative Dentistry. 3932 Locust St.
- BENJAMIN FRANKLIN, B.S., C.E.,  
Instructor in Civil Engineering. 1710 N. 18th St.
- CHARLES HERMAN HAUPT, B.S., C.E.,  
Instructor in Civil Engineering. 3102 Mt. Vernon St.
- GEORGE H. CHAMBERS, M.D.,  
Assistant Demonstrator of Normal Histology. 739 N. 17th St.
- HARRY B. MCFADDEN, D.D.S.,  
Demonstrator of Mechanical Dentistry. 3505 Hamilton St.
- JAMES K. YOUNG, M.D.,  
Assistant Demonstrator of Surgery, and Instructor  
in Orthopædic Surgery. 222 S. 16th St.
- AMBLER TEES, JR., D.D.S.,  
Assistant Demonstrator of Mechanical Dentistry,  
and Demonstrator of Continuous Gum Work. 548 N. 17th St.
- JOSEPH W. WHITE, D.D.S.,  
Assistant Demonstrator of Operative Dentistry. 3329 Powelton Ave.
- HENRY W. CATTELL, M.D.,  
Assistant Demonstrator of Chemistry. 3709 Spruce St.
- MILTON J. GREENMAN, Ph.B.,  
Instructor in General Biology. 3731 Locust St.
- R. HAMILL D. SWING, D.D.S.,  
Assistant Demonstrator of Operative Dentistry,  
and Demonstrator of Anæsthetics. 674 N. 39th St.
- FREDERICK W. AMEND, JR., D.D.S.,  
Assistant Demonstrator of Mechanical Dentistry. 3212 Market St.

\* Absent on leave.

- ROBERT FORMAD, V.M.D.,  
Lecturer on Veterinary Sanitary Science and  
Demonstrator of Normal Histology. 1008 N. 6th St.
- ARTHUR A. STEVENS, M.D.,  
Instructor in Physical Diagnosis. 4656 Green St., Gtn.
- LEE K. FRANKEL, B.S., P.C.,  
Instructor in Analytical Chemistry. 1315 Marshall St.
- J. EDWARD DUNWOODY, D.D.S.,  
Assistant Demonstrator of Operative  
Dentistry. S. E. cor. 40th & Brown Sts.
- MILTON N. KEIM, JR., D.D.S.,  
Assistant Demonstrator of Mechanical Dentistry. 2047 Arch St.
- BENJAMIN F. STAHL, M.D.,  
Instructor in Physical Diagnosis. 1502 Arch St.
- SENECA EGBERT, M.D.,  
Lecturer on Hygiene. 4808 Springfield Ave.
- CHARLES MEREDITH BURK, M.D.,  
Instructor in Zoölogy. 2110 Vine St.
- EDWARD C. KIRK, D.D.S.,  
Lecturer on Operative Dentistry. 1807 Chestnut St.
- HARRY C. DEAVER, M.D.,  
Assistant Demonstrator of Anatomy. 1629 Oxford St.
- JOHN C. HEISLER, M.D.,  
Prosector to the Professor of Anatomy, Assist-  
ant Demonstrator of Obstetrics, and Curator  
of Wistar and Horner Museum. 3705 Powelton Ave.
- WALTER D. GREEN, M.D.,  
Assistant Demonstrator of Surgery. 131 S. 15th St.
- FREDERICK A. PACKARD, M.D.,  
Instructor in Physical Diagnosis. 131 S. 15th St.
- \* WILLIAM R. NEWBOLD, A.B.,  
Lecturer on Philosophy, and Instructor in Latin. 4228 Chester Ave.
- DANIEL B. SHUMWAY, B.S.,  
Instructor in English. 1740 Green St.
- CHARLES A. E. CODMAN, D.D.S.,  
Assistant Demonstrator of Operative Dentistry. 1308 Walnut St.
- FREDERIC A. PEESO, D.D.S.,  
Demonstrator of Crown and Bridge Work. 4251 Regent Sq.
- JOHN D. THOMAS, D.D.S.,  
Lecturer on Nitrous Oxide. 912 Walnut St.

---

\* Absent on leave.

RICHARD C. NORRIS, M.D., Demonstrator of Obstetrics.	133 N. 19th St.
J. AUBREY DAVIS, M.D., Demonstrator of Obstetrics.	527 S. 42d St.
JOHN L. HATCH, M.D., First Assistant Demonstrator of Morbid Anatomy and Pathological Histology.	34 S. 18th St.
AMOS PEASLEE BROWN, B.S., E.M., Instructor in Mining and Metallurgy.	Fisher's Lane, Gtn.
DAVID R. GRIFFITH, Assistant Instructor in Mechanical Engineering.	2031 Columbia Ave.
CHALKLEY H. MAGILL, V.M.D., Demonstrator of Veterinary Surgery.	Oak Lane.
WILLIAM B. JAMISON, M.D., Assistant Demonstrator of Anatomy.	714 N. 40th St.
MILTON B. HARTZELL, Instructor in Dermatology.	3725 Spring Garden St.
W. CONSTANTINE GOODELL, M.D., Instructor in Clinical Gynæcology.	1418 Spruce St.
* LIGHTNER WITMER, Assistant in Psychology.	1734 Park Ave.
J. ORIE CLARK, Instructor in Drawing.	2536 Park Terrace.
J. PERCY MOORE, Assistant Instructor in Zoölogy.	1931 Judson Place.
JOHN HARSHBERGER, Assistant Instructor in Analytical Botany.	737 Corinthian Ave.
CHARLES S. POTTS, M.D., Instructor in Electro-Therapeutics.	1712 Wallace St.
JAMES M. BROWN, M.D., Instructor in Otology,	3813 Baring St.
MAXWELL SOMMERVILLE, University Lecturer on Glyptology.	311 S. 10th St.
FRANK MILES DAY, B.S., Lecturer on Architecture.	1910 Locust St.
WILSON EYRE, JR., Lecturer on Architecture.	315 S. 16th St.
BARR FERREE, B.S., Lecturer on Architecture.	231 Broadway, New York.

\* Absent on leave.

FRANK FURNESS, Lecturer on Architecture.	711 Locust St.
ADDISON HUTTON, Lecturer on Architecture.	210 West Cheltenham Ave.
JOHN STEWARDSON, Lecturer on Architecture.	Chestnut Hill.
JOSEPH M. WILSON, Lecturer on Architecture.	1106 Spruce St.
EDWIN R. KELLER, B.S., M.E., Instructor in Mechanical Engineering.	4823 Springfield Ave.
CLAYTON W. PIKE, B.S., Instructor in Electrical Engineering.	3707 Walnut St.
WALTER J. KEITH, PH.D. (Göttingen), Instructor in General Chemistry.	222 North 21st St.
EDWIN S. MUIR, PH.G., V.M.D., Demonstrator of Veterinary Pharmacy.	2145 N. 2d St.
WILLIAM H. RIDGE, V.M.D., Demonstrator of Veterinary Obstetrics.	Treves, Pa.
J. J. MORRIS, Assistant Instructor in Mechanical Engineering.	University.
JAMES G. LANE, D.D.S., Assistant Demonstrator of Crown and Bridge Work.	3734 Powelton Ave.
JOSEPH LEIDY, JR., M.D., Assistant Demonstrator of Morbid Anatomy and Pathological Histology.	13th St. below Locust.
DAVID JAYNE BULLOCK, Assistant Instructor in Zoölogy and Curator.	1826 Chestnut St.
ALEXANDER C. ABBOTT, M.D., First Assistant in Hygiene.	University.
JAMES HARVEY ROBINSON, University Lecturer on European History.	University.
DAVID CERNA, M.D., Assistant in Physiology, and Demonstrator of Experimental Therapeutics.	3915 Pine St.
WALTER J. PENNOCK, M.D., Assistant Demonstrator of Anatomy.	1407 N. 17th St.
LEON BRINKMANN, M.D., Assistant Demonstrator of Anatomy.	251 N. 18th St.
JOHN A. BOGER, M.D., Assistant Demonstrator of Anatomy.	2414 N. 25th St.

GEORGE E. DE SCHWEINTZ, M.D., Lecturer on Ophthalmology.	1401 Locust St.
J. HOWARD REEVES, M.D., Instructor in Laryngology.	2031 Chestnut St.
HERMAN B. ALLYN, M.D., Instructor in Physical Diagnosis.	3913 Spruce St.
ALBERT A. GHRISKEY, M.D., Assistant in Hygiene.	3920 Walnut St.
HENRY W. ROLFE, Ph.D., Lecturer on the Latin Language and Literature.	205 De Kalb Sq.
JAMES WALLACE, M.D., Instructor in Ophthalmology.	121 N. 16th St.
ARTHUR B. WOODFORD, Ph.D., Instructor in Political Science.	3202 Race St.
HUGH WALKER OGDEN, A.B., Instructor in Latin.	Ogontz, Pa.
FREDERICK W. MOORE, Ph.D., Instructor in Sociology.	3717 Spruce St.
SIDNEY SHERWOOD, Ph.D., Instructor in Finance.	3611 Locust St.
L. K. STEIN, A.M., Assistant in the Wharton School.	218 De Kalb Sq.
JULIAN MILLARD, Instructor in Architecture.	3731 Spruce St.
JULIUS OHLY, Ph.D., Instructor in Chemistry.	University.
JAMES CLARK IRWIN, B.S., C.E., Instructor in Civil Engineering.	University.
GEORGE FRANCIS JAMES, A.M., University Lecturer on Modern Literature.	3737 Locust St.
WALTER B. SKAIFE, Ph.D., University Lecturer on Modern History.	Windsor Hotel.
ALBERT S. BOLLES, Ph.D., University Lecturer on Banking Law and Practice.	Aldine Hotel.
WILLIS BOUGHTON, Ph.D., Lecturer on English.	4051 Haverford St.
WILLIAM SCHLEIF, Ph.G., Assistant Demonstrator of Pharmacy.	3202 Sansom St.
WILLIAM S. CARTER, M.D., Assistant in Physiology.	807 N. 41st St.
* CHARLES G. STIVERS, M.D., Assistant Demonstrator of Histology.	3719 Powelton Ave.

- LEO BREISACHER, V.M.D.,  
Demonstrator of Comparative Physiology. University.
- HARRY D. ENTRIKIN, V.M.D.,  
Demonstrator of Veterinary Anatomy. University.
- B. FRANK SENSEMAN, V.M.D.,  
Assistant Demonstrator of Veterinary  
Anatomy. 5156 Lancaster Ave.
- ZACHARIAH R. SCHOLL,  
Demonstrator of Forging and Horseshoeing. University.
- JUSTINO S. DILK, D.D.S.,  
Assistant Demonstrator of Operative Dentistry. University.
- C. HERBERT WILSON, D.D.S.,  
Assistant Demonstrator of Mechanical Dentistry. 1245 S. 49th St.
- GUY HINSDALE, M.D.,  
Lecturer on Climatology. 4011 Chestnut St.
- M. HOWARD FUSSELL, M.D.,  
Instructor in Clinical Medicine. 189 Green Lane, Manayunk.
- SAMUEL W. MORTON, M.D.,  
Instructor in Clinical Medicine. 1107 Walnut St.
- ALFRED C. WOOD, M.D.,  
Instructor in Clinical Surgery. University Hospital.
- ELWOOD R. KIRBY, M.D.,  
Assistant Instructor in Clinical Surgery. University.
- CHARLES L. LEONARD, M.D.,  
Assistant Instructor in Clinical Surgery. University.
- JOSEPH MCFARLAND, M.D.,  
Assistant Demonstrator of Pathological  
Histology. 1314 Franklin St.
- GEORGE C. STOUT, M.D.,  
Assistant Demonstrator of Histology. University.
- EDMUND A. STEWARDSON,  
Instructor in Modelling. Chestnut Hill.
- OTTO REUNING,  
Clerk to the College Faculty.
- WM. H. SALVADOR,  
Clerk to the Faculty of Medicine.
- JOHN A. REIMOLD,  
Clerk to the Faculty of Dentistry.
- W. W. DOWELL,  
Clerk to the Faculty of Veterinary Medicine.
- HARRY J. FINKBINER,  
Clerk to the Faculty of Biology.

# DEPARTMENT OF DENTISTRY.

---

## FACULTY.

WILLIAM PEPPER, M.D., LL.D., PROVOST, and *ex-officio* President.  
CHARLES J. ESSIG, M.D., D.D.S., Professor of Mechanical Dentistry and Metallurgy.  
EDWIN T. DARBY, M.D., D.D.S., Professor of Operative Dentistry and Dental Histology.  
JAMES TRUMAN, D.D.S., Professor of Dental Pathology, Therapeutics and Materia Medica.  
THEODORE G. WORMLEY, M.D., LL.D., Professor of Chemistry.  
EDWARD T. REICHERT, M.D., Professor of Physiology.  
GEORGE A. PIERSOL, M.D., Professor of Anatomy.  
JOHN MARSHALL, M.D., NAT.SC.D., Assistant Professor of Chemistry.

---

ROBERT HUEY, D.D.S., Lecturer on Operative Dentistry.  
EDWARD C. KIRK, D.D.S., Lecturer on Operative Dentistry.  
JOHN D. THOMAS, D.D.S., Lecturer on Nitrous Oxide.

## CLINICAL INSTRUCTORS.

DR. C. S. BECK,	DR. E. H. NEALL,
DR. GEO. W. KLUMP,	DR. H. C. REGISTER,
DR. W. G. A. BONWILL,	DR. I. F. WARDWELL,
DR. W. R. MILLARD,	DR. J. A. WOODWARD.
DR. R. R. UNDERWOOD.	

## DEMONSTRATORS.

WILLIAM DIEHL, D.D.S., Demonstrator of Operative Dentistry.  
HARRY B. MCFADDEN, D.D.S., Demonstrator of Mechanical Dentistry.  
JAMES E. LODER, D.D.S., Assistant Demonstrator of Operative Dentistry.  
JOSEPH W. WHITE, D.D.S., Assistant Demonstrator of Operative Dentistry.  
AMBLER TEES, JR., D.D.S., Assistant Demonstrator of Mechanical Dentistry, and Demonstrator of Continuous Gum Work.

- R. HAMILL D. SWING, D.D.S., Assistant Demonstrator of Operative Dentistry, and Demonstrator of Anæsthetics.
- FREDERICK W. AMEND, JR., D.D.S., Assistant Demonstrator of Mechanical Dentistry.
- MILTON N. KEIM, JR., D.D.S., Assistant Demonstrator of Mechanical Dentistry.
- J. EDWARD DUNWOODY, D.D.S., Assistant Demonstrator of Operative Dentistry.
- CHARLES A. E. CODMAN, D.D.S., Assistant Demonstrator of Operative Dentistry.
- FREDERIC A. PEESO, D.D.S., Demonstrator of Crown and Bridge Work.
- JAMES G. LANE, D.D.S., Assistant Demonstrator of Crown and Bridge Work.
- JUSTINO S. DILK, D.D.S., Assistant Demonstrator of Operative Dentistry.
- C. HERBERT WILSON, D.D.S., Assistant Demonstrator of Mechanical Dentistry.
- EDMUND W. HOLMES, M.D., Demonstrator of Anatomy.
- ROBERT FORMAD, V.M.D., Demonstrator of Normal Histology.

### MATRICULATES.

#### SECOND YEAR.

- |                          |                          |                                |
|--------------------------|--------------------------|--------------------------------|
| Adams, Walter B.,        | Germantown,              | Wistar P. Brown.               |
| Armada, Carlos A. de,    | Rio de Janeiro, Brazil,  | University.                    |
| Ayers, Josiah,           | Union Roads, P. E. Is'd, | University.                    |
| Baer, Harry K.,          | Kready,                  | W. H. Trout.                   |
| Bardach, Hermann, M.D.,  | Vienna, Austria,         | Univ. of Vienna & Berlin.      |
| Beitzel, Walter G.,      | Atchison, Kansas,        | William H. Shulze.             |
| Benninghoff, Joseph L.,  | Greenville,              | M. H. Fetzer.                  |
| Berger, Johannes,        | Görlitz, Germany,        | Univ. of Berlin.               |
| Betts, Edward P.,        | Towanda,                 | University.                    |
| Blanchard, Geo. R., Jr., | Philadelphia,            | J. F. Manship.                 |
| Bodine, Fred M.,         | Wellsboro,               | A. B. Eastman.                 |
| Bond, Francis H.,        | Hazleton,                | William H. Hertz.              |
| Bonwill, Edward W.,      | Philadelphia,            | W. G. A. Bonwill.              |
| Bowen, John J.,          | Providence, R. I.,       | University.                    |
| Brown, Andrew Law.,      | New Haven, Conn.,        | F. W. Brown.                   |
| Cahill, Frank J.,        | Trenton, N. J.,          | University.                    |
| Carey, Stephen H.,       | Philadelphia,            | Milton N. Keim, Jr.            |
| Christensen, Wilhelm E., | Nyborg, Denmark,         | L. A. Weil.                    |
| Clark, Frank T.,         | South Easton,            | University.                    |
| Cleveland, Harry W.,     | Akron, Ohio,             | B. J. Hill.                    |
| Coen, Edward B.,         | Bloomington, Ill.,       | J. W. Fisher.                  |
| Condict, Frederick L.,   | Dover, N. J.,            | N. Y. Coll. of Dental Surgery. |
| Cook, Frank P.,          | Fayette City,            | University.                    |

Cooper, William M.,	Port Perry,	S. S. Macfarlane.
Crankshaw, Charles W.,	Norristown,	University.
Danforth, Joseph T.,	Warren,	Joel Danforth.
Diefenderfer, Victor H.,	New Castle,	Geo. W. Greene.
Dreher, Jeremiah H.,	Mt. Pleasant, N. C.,	University.
Eldredge, J. Smallwood,	Cape May, N. J.,	University.
Elfers, Henry,	Hamburg, Germany,	Th. Geller.
Ernsmere, John B.,	Rochester, N. Y.,	University.
Flexer, Richard J.,	Allentown,	University.
Freeman, Harry Kerr,	Huntingdon,	G. L. Robb.
Gearhart, J. Beaver,	Danville,	University.
Gilbert, Lewis H.,	Rochester, N. Y.,	W. F. Arnold.
Goddard, Henry Ernest,	Nottingham, England,	London Dental Hos.
L. D. S.,		
Goodfellow, Elton C.,	Philadelphia,	George J. Paynter.
Griffith, R. Philip,	Kingston,	University.
Grubb, A. Herbert,	West Chester,	J. L. Baker & R. M. Scott.
Gunn, William,	Timaru, New Zealand,	University.
Gutierrez, Silvestre,	Mexico, Mexico,	University.
Hamilton, Harry B.,	Ithaca, N. Y.,	F. E. Howe and E. E. Holmes.
Hart, Arch Coombs, Ph. B.,	Pacific Grove, Cal.,	University.
Hause, Edward B.,	Milton,	U. G. Beck.
Haynes, Melvin G.,	Centralia, N. Y.,	University.
Heiges, T. Tyrrell,	York,	J. D. Heiges.
Herrera, Domingos,	Havana, Cuba,	University.
Hicks, Edward H.,	Philadelphia,	University.
Hine, Robert H.,	New Haven, Conn.,	W. J. Mayer.
Holmes, Walter T.,	New Haven, Conn.,	Ehni Bros.
Hotz, Paul,	Zürich, Switzerland,	Univ. of Zürich.
Ives, A. Scott,	Sherbrooke, Canada,	A. W. Hyndman.
Joachim, Edward B.,	Philadelphia,	University.
Johnson, George H., Jr.,	Nassau, Bahamas,	University.
Johnson, Oakley,	Walla Walla, Wash.,	Frank W. Rees.
Johnston, H. Frank,	Belleville, Canada,	Royal Coll. of Dental Surgeons, Ont.
Keffer, Franklin M.,	Philadelphia,	E. I. Keffer.
Kittams, James H.,	Ilion, N. Y.,	C. Cutler Smith.
Kuiewel, Johannes,	Danzig, Germany,	Univ. of Berlin.
Landsberg, Bernhard,	Darmstadt, Germany,	Univ. of Berlin.
Lapp, Elbert W.,	Philadelphia,	John G. Fuller.
Lawton, Burtis E.,	Omaha, Nebraska,	Whinnery & Keim.
Lemker, W. J. ter Kuile,	Enschede, Holland,	Univ. of Utrecht.
Leonhardi, Charles,	Sacramento, Cal.,	University.
Le Suer, William J.,	Oneonta, N. Y.,	E. J. Morgan.
Ligondé, Louis G.,	Jean-Rabel, Hayti,	University.
López, José Lúcio.,	Guatemala, C. A.,	University.
Lower, John P.,	Philadelphia,	University.
Lukens, Clarence D.,	Muscatine, Iowa,	H. F. Seip.
Lynch, Patrick F.,	Wilkes-Barre,	J. F. O'Malley.
Matthey, Edouard,	Brévine, Switzerland,	University of Zürich.

McDowell, Joseph M.,	Media,	H. L. Smedley.
Middaugh, W. Clay,	Easton,	T. F. King.
Mitchell, Vethake E.,	London, Ohio,	John S. Chance.
Murto, Frank D.,	Pittsburgh,	J. D. Bell.
Nellis, George H.,	Union, N. Y.,	S. W. Adamy.
Newgarden, Charles,	Philadelphia,	University.
Nicodemi, A. Ribolla,	Palermo, Italy,	L. R. Nicodemi.
Parshall, Edward E.,	Tidioute,	W. W. Freeman.
Phipps, Harry D.,	Paris, Texas,	University.
Prostman, Albert B.,	Vevay, Indiana,	University.
Richards, John W.,	Ransom,	University.
Ricker, John R.,	Galveston, Texas,	University.
Ross, Alfred T.,	Philadelphia,	G. J. R. Miller.
Rymer, James Francis,	Croydon, England,	Royal College of
L. D. S.,		Surgeons, Eng.
Samaniego, Mariano	Juarez, Mexico,	University.
Nicolas,		
Saunders, T. Darwin,	Rochester, N. Y.,	B. G. Saunders.
Schoff, P. Frank,	York,	University.
Segar, J. Clark,	New Haven, Conn.,	G. H. Gidney.
Seymour, Robert J.,	Arkona, Canada,	University.
Skillman, E. Harvey,	Union, N. Y.,	University.
Smith, A. Fowler,	Auburn, N. Y.,	C. J. Barber.
*Smoker, John A.,	Lewistown,	University.
Sowash, W. Harry,	Irwin,	University.
†Squire, Daniel H.,	Lisle, N. Y.,	Univ. of Michigan.
Stathers, James R.,	Wheeling, W. Va.,	John H. McClure.
Stewart, Charles A.,	Tremont,	W. W. Stewart.
Swing, Harry R.,	Coatesville,	R. H. D. Swing.
Taylor, D. Everett,	New Haven, Conn.,	Elias Strong.
Wardell, Frank C.,	Towanda,	University.
Whitlock, Edward P.,	Scranton,	J. S. Walden.
Whitmer, S. Edwin, A. B.,	Newport,	S. H. Whitmer.
Willis, Albert L.,	Walla Walla, Wash.,	University.
Wimmer, George J.,	Macungie,	H. D. Kurtz.
Windmüller, Percival,	Hamburg, Germany,	Univ. of Berlin and
M. D.,		Göttingen.
Witthaus, Carl,	Osnabrück, Germany,	Univ. of Berlin.
Wuensche, Eugen,	Oberkunnorsdorf,	Univ. of Breslau and
	Germany,	Leipzig.

Students of the Second Year, 107.

#### FIRST YEAR.

Achard, William C.,	Gloucester, N. J.,	W. B. Shelp.
†Amberson, Presley N.,	Waynesboro,	University.
Avila, Antonio de,	Sao Paulo, Brazil,	University.
Barral, Marcel,	Bordeaux, France,	Henri Leys.
Benninghoff, John M.,	Greenville,	University.
Black, Henry E.,	Bedeque, P. E. Is'd,	University.

\* Deceased.

† Not in attendance.

Bloomfield, Samuel J.,	Sherbrook, Canada,	A. W. Hyndman.
Bogue, Frederick L.,	Montclair, N. J.,	E. A. Bogue.
Bosworth, Madison,	Omaha, Neb.,	University.
Bowers, Frederic H.,	Freeport, Ill.,	Kingsley, Allen & Sunderland.
Bush, W. Beckner,	Danville, Ky.,	J. H. Letcher.
Butler, Harry B.,	Fulton, N. Y.,	I. C. Curtis.
*Currey, J. Albert,	Philadelphia,	University.
Cush, John J.,	Scranton,	W. P. DeLacy.
Erler, Rudolph,	Rochester, N. Y.,	B. F. La Salle.
Finch, George H.,	Boydton, Va.,	R. H. Finch.
Fitzpatrick, Philip J.,	Philadelphia,	University.
Garretson, Walter R.,	Knoxville, Iowa,	C. F. Garretson.
Gauntt, Le Clerc,	Philadelphia,	W. L. Winner.
Gilman, Lewis H.,	Philadelphia,	University.
Hatch, James A.,	Philipsburg,	J. A. Hatch.
Hatch, J. Irvin,	Altoona,	J. A. Hatch.
Hazell, E. Foster,	Freeport, Ill.,	Kingsley, Allen & Sunderland.
Hill, Joseph M.,	Philadelphia,	University.
Horgan, John E.,	Philadelphia,	C. F. Horgan.
Hunter, John D.,	Phoenixville,	University.
Kenney, Arthur T.,	St. Kilda, Australia,	D. McGregor.
Kuehn, Emil W.,	Wabasha, Minn.,	University.
Littig, Marquis D.,	Davenport, Iowa,	H. A. Littig.
Longeway, George E.,	Dunham, Canada,	R. H. Berwick.
Lopez, L. Juan A.,	Guayaquil, Ecuador,	University.
McKinney, W. Ray,	Ithaca, N. Y.,	University.
Mader, John B.,	Lock Haven,	John S. Mader.
*Maitland, Arthur G.,	Invercargill, New Zealand,	University.
Maize, Harry G.,	Mt. Carmel,	M. J. Hess.
Marfing, Edward J.,	Scranton,	University.
Marlow, Walter S.,	Wantage, England,	G. Pedley.
Matteossian, Herant B.,	Constantinople, T'ky,	University.
Mosberg, Carl,	Berlin, Germany,	University.
Odell, Charles F.,	Toledo, Ohio,	E. M. Cook.
O'Donnell, Peter,	Sugar Notch,	University.
Patterson, Thurlow G.,	Syracuse, N. Y.,	University.
Phipps, Otey H.,	Paris, Texas,	University.
Portz, Charles F.,	White Haven,	H. J. Laird.
Robb, Guy C.,	Huntingdon,	G. L. Robb.
Robeson, John H.,	Westbrook, N. C.,	Watkins & Conrad.
Robinson, Thomas W.,	Brooklyn, N. Y.,	Geo. F. Emerson.
Stein, D. Ambrose,	Millersville,	University.
Stine, Charles E.,	Hanover,	H. C. Ruth.
Storer, John W.,	Wheeling, W. Va.,	John H. McClure.
Sturtevant, Harry C.,	Philadelphia,	Louis E. Rauch.
Taggart, Campbell C.,	Philadelphia,	D. D. Smith.
*Taggart, John B.,	Tidioute,	University.
Taylor, Howard S.,	Dover, Del.,	University.
Tyndale, Harold, Jr.,	Philadelphia,	University.

\* Not in attendance.

Trey, Victor de,	Vevey, Switzerland,	Emile de Trey.
Watters, T. Frederick,	Akron, Ohio,	J. H. Laney.
Weakly, Arthur D.,	Shelbyville, Ill.,	University.
Witmer, B. Frank,	Soudersburg,	M. H. Musser.
Wray, William J.,	Philadelphia,	University.
Wunder, Otto L.,	Sharon Hill,	University.
Zerfing, Wilson,	Ashland,	University.

Students of the First Year, 62.

Students of the Second Year . . . . . 107

Students of the First Year . . . . . 62

Total . . . . . 169

The total number of new matriculates the present session, including those admitted to advanced standing, is 78.

### SUMMARY.

Australia . . . . .	1	Kansas . . . . .	1
Austria . . . . .	1	Kentucky . . . . .	1
Bahamas . . . . .	1	Mexico . . . . .	2
Brazil . . . . .	2	Minnesota . . . . .	1
California . . . . .	2	Nebraska . . . . .	2
Canada . . . . .	5	New Jersey . . . . .	5
Connecticut . . . . .	5	New York . . . . .	16
Cuba . . . . .	1	New Zealand . . . . .	2
Delaware . . . . .	1	North Carolina . . . . .	2
Denmark . . . . .	1	Ohio . . . . .	4
Ecuador . . . . .	1	Pennsylvania . . . . .	73
England . . . . .	3	Prince Edward Island . . . . .	2
France . . . . .	1	Rhode Island . . . . .	1
Germany . . . . .	8	Switzerland . . . . .	3
Guatemala, C. A. . . . .	1	Texas . . . . .	3
Hayti . . . . .	1	Turkey . . . . .	1
Holland . . . . .	1	Virginia . . . . .	1
Illinois . . . . .	4	Washington . . . . .	2
Indiana . . . . .	1	West Virginia . . . . .	2
Iowa . . . . .	3		
Italy . . . . .	1	Total . . . . .	169

### COURSE OF STUDY.

The course extends over three years, and in each year there are two sessions; the first, or regular Winter Session, extending from October to May—seven months. This is followed by a short Spring Session, which is of a practical character, and confined entirely to the Operating and Mechanical rooms. This course closes the last of June.

During the Winter Session the following is the arrangement of studies:

## ORDER OF LECTURES AND PRACTICAL WORK.

## FIRST YEAR.

<i>Hour.</i>	<i>Monday.</i>	<i>Tuesday.</i>	<i>Wednesday.</i>	<i>Thursday.</i>	<i>Friday.</i>	<i>Saturday.</i>
9 A.M.	Chemistry.	Chemistry.				
10 A.M.	Laboratory of Mechanical Dentistry.	Laboratory of Mechanical Dentistry.	Laboratory of Mechanical Dentistry.	Chemical Laboratory. Three H'rs.	Laboratory of Mechanical Dentistry.	Laboratory of Mechanical Dentistry.
11 A.M.						
12 M.	Practical Normal Histology. One Section Two Hours.	Practical Normal Histology. One Section Two Hours.	Practical Normal Histology. One Section Two Hours.	Practical Normal Histology. One Section Two Hours.	Practical Normal Histology. One Section Two Hours.	Dental Materia Medica.
1 P.M.						
2 P.M.	Practice in Operative Dentistry.	Practice in Operative Dentistry.	Practice in Operative Dentistry.	Practice in Operative Dentistry.	Practice in Operative Dentistry.	
3½ P.M.		Anatomy.	Anatomical Demonstrat	Anatomy.	Anatomy.	
4½ P.M.	Physiology.	Operative Dentistry.	Physiology.	Operative Dentistry.	Physiology.	
5½ P.M.	Mechanical Dentistry.		Mechanical Dentistry, until Jan. 1. Metallurgy, after Jan. 1.			

For the study of Practical Histology the class is divided into sections, one of which is occupied at a time. Those of the First-Year Students not thus engaged attend the Mechanical Clinics.

## SECOND YEAR.

<i>Hour.</i>	<i>Monday.</i>	<i>Tuesday.</i>	<i>Wednesday.</i>	<i>Thursday.</i>	<i>Friday.</i>	<i>Saturday.</i>
9 A.M.	Operative and Mechanical Clinics and Instruction in Crown and Bridge Work.	Operative and Mechanical Clinics and Instruction in Crown and Bridge Work.	Operative and Mechanical Clinics and Instruction in Crown and Bridge Work.	Operative and Mechanical Clinics and Instruction in Crown and Bridge Work.	Operative and Mechanical Clinics and Instruction in Crown and Bridge Work.	Operative Clinic.
10 A.M.						
11 A.M.						
12 M.			Medical and Surgical Clinics. University Hospital.			Medical and Surgical Clinics. University Hospital.
1 P.M.	Operative Clinic.	Operative Clinic.		Operative Clinic.	Operative Clinic.	
2 P.M.			Operative Clinic.			
3½ P.M.		Anatomy.		Anatomy.	Anatomy.	
4½ P.M.	Physiology.	Operative Dentistry.	Physiology.	Operative Dentistry.	Physiology.	
5½ P.M.	Mechanical Dentistry.		Mechanical Dentistry, until Jan. 1. Metallurgy, after Jan. 1.		Dental Pathology and Therapeutics.	

The curriculum of the first and second years is identical for Medical and Dental students so far as Chemistry, Histology, Anatomy and Physiology are concerned.

## THIRD YEAR.

<i>Hour.</i>	<i>Monday.</i>	<i>Tuesday.</i>	<i>Wednesday.</i>	<i>Thursday.</i>	<i>Friday.</i>	<i>Saturday.</i>
9 A.M.	Operative Clinic and Clinical Practice in Crown and Bridge Work.	Operative Clinic and Clinical Practice in Crown and Bridge Work.	Operative Clinic and Clinical Practice in Crown and Bridge Work.	Operative Clinic and Clinical Practice in Crown and Bridge Work.	Operative Clinic and Clinical Practice in Crown and Bridge Work.	Operative Clinic.
10 A.M.						
11 A.M.						
12 M.	Operative Clinic.	Operative Clinic.	Medical and Surgical Clinics, University Hospital.	Operative Clinic.	Operative Clinic.	Medical and Surgical Clinics, University Hospital.
1 P.M.						
2 P.M.			Operative Clinic.			
3½ P.M.						
4½ P.M.		Operative Dentistry.		Operative Dentistry.		
5½ P.M.	Mechanical Dentistry.		Mechanical Dentistry, until Jan. 1. Metallurgy after Jan. 1.		Dental Pathology and Therapeutics.	

## OPERATING-ROOM, LABORATORIES, ETC.

The department possesses the means for thorough training, both theoretical and practical, not surpassed, it is believed, by any other institution. The Operating-Room is 140 feet in length by 40 feet in width, and lighted by windows on all sides. In front of each window are placed a Morrison chair, a handsome nickel-plated movable bracket, and a neat walnut table. Battery wires are arranged to a number of the chairs for the use of electric pluggers.

The Mechanical Laboratory is supplied with all the modern appliances, and is under the care of able and experienced mechanics. Special clinics will be given in continuous gum and crown and bridge work.

The extensive Chemical Laboratories are under the charge of the Assistant Professor of Chemistry.

The Dissecting-Room is large, well lighted, thoroughly ventilated, and is furnished with ample material for the successful prosecution of anatomical studies.

In order to facilitate work in the practical departments, and

to fully employ the student's time, the regular winter sessions are so arranged that the first-course student is required to devote the morning hours equally between *dental, histological, and chemical laboratory work*.

During the second and third years the student has the entire forenoon of each day for practical dental work. Ample opportunity is afforded for practice in operative and mechanical dentistry. In the latter branch, the students of the first year are divided into sections, thus devoting the time not otherwise engaged to practice in the operative and mechanical rooms.

It is believed that this plan of *grading the course*, and of affording the first-year student an opportunity of coming forward for examination in the branches of chemistry, histology, and materia medica, and the second-year student upon anatomy and physiology, will not only prove an economical arrangement of his time, but will really facilitate his labors in the acquirement of knowledge in the remaining branches.

### OUTLINE OF THE COURSE, SESSION 1892-93

The First-Year Students will be required to attend the following branches and pass final examinations upon Materia Medica, Chemistry and Histology at the close of the term. If the student fail to pass, a second examination is afforded him at the beginning of the next Winter Session.

1. Chemistry, in the Chemical Laboratory, three hours, Thursday morning, and the lectures on this branch Monday and Tuesday of each week.
2. Dental Materia Medica. One lecture, Saturday of each week.
3. General and Special Histology in the Histological Laboratory, two hours, and Anatomical Demonstrations, one hour each week.
4. The morning hours, not otherwise occupied, will be devoted to practical work in the Mechanical Laboratory.
5. On the afternoon of each week-day, except Saturday, the students of the First-Year Class will be trained in operative work, either out of the mouth on extracted teeth, or in simple cavities in the living subject.
6. They will, in addition to subjects named, attend lectures on Anatomy, Physiology, Operative and Mechanical Dentistry.

## SECOND YEAR.

1. Students of the second year will repeat Anatomy and Physiology, Operative and Mechanical Dentistry, and add thereto Dental Pathology and Therapeutics.
2. They will repeat Operative and Mechanical Work with the privilege of the operating-room and appliances during the morning as well as the afternoon clinics.
3. The final examinations of the second year, at the close of the term, will be upon Anatomy and Physiology.

## THIRD YEAR.

1. Students of the third year will repeat the practical work in Operative and Mechanical Dentistry, and the lectures on these subjects, together with Dental Pathology and Therapeutics.
2. At the close of the term they will be required to pass examinations in these branches.

## COURSE OF INSTRUCTION.

The lectures on OPERATIVE DENTISTRY AND DENTAL HISTOLOGY embrace the comparative anatomy of the teeth, the functions and microscopical peculiarities of the dental organs, the development of teeth, their component tissues, a full description of the materials and instruments used in operative dentistry, a thorough elucidation of all dental operations, such as filling, extracting, regulating, the pathological relations of the teeth to the other parts of the system, and a minute description of all diseases related to dental surgery or of interest to the dentist. The methods taught are demonstrated in clinics.

The instruction in MECHANICAL DENTISTRY AND DENTAL METALLURGY embraces the proper fitting up of a dental laboratory, the use of tools, the melting, refining, alloying and working of metals and alloys used by the dentist, the chemical and physical properties of materials pertaining to ceramic dentistry, their preparation, and the most approved formulas for compounding bodies and enamels for the manufacture of block teeth and continuous gum work, the history and properties of all substances used in making artificial dentures, as well as the mechanical treatment of cleft palate, including the several methods of constructing obturators for such cases, whether congenital or

acquired. The lectures in this department also include every approved mechanical means of correcting irregularities of the teeth, and are amply illustrated by specimens, models, diagrams, and practical application in the laboratory, under the supervision of accomplished mechanical dentists. Special attention will be directed to crown and bridge work, the higher branches of plate work, the continuous gum process, and carving teeth.

Every student is required to furnish his own bench tools for metal and rubber work, and will be provided with a place in which they can be locked when not in use.

The lectures on CHEMISTRY embrace the study of chemical physics and principles of chemical philosophy, together with a detailed consideration of the principal elementary substances and their compounds, and of the fundamental principles of organic chemistry, including the classification of organic compounds, and the special study of typical members of the different classes. Special attention is also given to the laws of chemical affinity, and the conditions under which they are modified, especially as they relate to the preparation of mixtures and prescriptions.

The course in practical chemistry in the laboratory includes exercises in chemical manipulation, the study of the chemical properties of the principal metals, the reactions of acids and their combinations, and the general principles of qualitative analysis, especially as they relate to the detection and separation of the metals and compounds which are of interest to practitioners in all branches of dentistry. Each student is provided with a separate table and apparatus, and is required to perform all the usual chemical manipulations under the direction of demonstrators, as well as to exhibit by formulas, on paper, all reactions involved in his tests.

HUMAN ANATOMY is taught in its relations to all the departments of medicine, including dentistry. The lectures are illustrated by fresh dissections of the human body, and by a rich museum of anatomical specimens, large and well-executed models, and drawings.

The course on PHYSIOLOGY includes lectures, with demonstrations, on the entire human physiology and on physiological chemistry. The study of the physiology of each organ is pre-

ceded by a full consideration of its histology. The course is amply illustrated by appropriate diagrams, chemico-physiological experiments, and vivisections.

The lectures on DENTAL PATHOLOGY include such portions of general pathology as have a bearing upon the special subjects taught. Dentition and its possible pathological results receive careful attention, followed by a detailed consideration of all the diseases to which the teeth and surrounding parts are liable, the character—normal and abnormal—of the oral secretions, and the direct and remote relations which the pathological conditions of the mouth sustain to other portions of the system.

The treatment required under each head is explained, and the recognized processes by which to secure a return to normal conditions are minutely detailed.

MATERIA MEDICA will be taught with special reference to the character and value of those remedies that have any bearing upon dental therapeutics.

In addition to the lectures and demonstrations by the Professor of Anatomy, practical instruction in General and Special HISTOLOGY will be given in the histological laboratory to the students of the first year, the class being divided into sections. The laboratory is furnished with excellent microscopes, and all apparatus necessary to enable the student to become familiar with the most approved methods of microscopical technology, as well as with the minute structure of all the tissues and organs. Especial facilities are afforded for original research; for this purpose the laboratory is open throughout the year, except during July and August.

### CLINICAL INSTRUCTION.

Seven hours daily (except Saturday) are spent in actual practice under the supervision of the Demonstrators; on Saturdays, from 9 A.M. to 1 P.M. Every student is required to provide his own instruments, except those for extracting. He is expected to keep them in perfect order, and will be furnished with a place in which they can be locked when not in use.

The preparation of Crown and Bridge Work, and Continuous Gum Dentures, will be under the charge of specially qualified

Demonstrators. The increasing demand for both these forms of artificial appliances has rendered necessary enlarged facilities for instruction in metal working in the mechanical laboratory, and the students are required to become familiar with the manipulation of metals equally with the preparation of other and more common materials.

### INFIRMARY AND LABORATORY.

The Infirmary and Laboratory are open to the students for practice every day during the week, excepting Saturday afternoon, this being reserved for Clinics that may be given by members of the faculty or instructors.

The Infirmary and Laboratory are open throughout the year, except during July and August.

### THE LIBRARY.

The new Library Building is now completed. The Stillé Medical Library has been removed to the spacious department devoted to the books belonging to the University. It is in anticipation to prepare a Dental Library for this building, and space has been reserved for it.

The Library Building has been erected in the most substantial manner and, at the same time, with an architectural elegance probably not surpassed by any building devoted to a similar purpose in the country. The various valuable collections belonging to the University will be deposited there in special rooms prepared for the purpose.

The students have free access to the reading-room.

### MUSEUM AND CABINETS.

THE WISTAR AND HORNER MUSEUM, founded nearly one hundred years ago, and annually augmented, is unequalled in the United States for the number and variety of its specimens of the normal and the morbid anatomy of the human body. It also contains a large number of preparations in Comparative Anatomy, a rich collection relating to Dentistry, such as the different stages of dentition, abnormal conditions of the teeth,

mandibles of the lower animals, etc., and an extensive collection of models. It is open every week-day from 1 P.M. to 3.30 P.M., throughout the sessions. The matriculation fee in this department confers admission to the Museum.

### ARRANGEMENT OF SESSIONS.

The Collegiate Year is divided into two sessions: First, the Winter Session, on which alone attendance is required, and which is preceded by a short Introductory Course; and second, the Spring Session.

The *Spring Session*, 1892, begins on Monday, May 9th, and ends the last of June. The work of this session is entirely practical; no lectures are delivered.

The *Introductory Session* begins on Monday, September 26th, and is free to those who enter for the Winter Session.

The *Winter Session*, 1892-93, begins on Monday, October 3d, 1892, and ends at Commencement, early in May, 1893.

~~It~~ *Students are earnestly requested to be in attendance at the beginning of the Winter Session, as later entrance is attended with serious loss in lectures and practical work.*

### CONDITIONS OF ADMISSION.

Candidates for admission are required: *First*, to write an essay (not exceeding a page of foolscap), as a test of Orthography and Grammar; *second*, to pass an examination in the English branches—viz., Grammar, Arithmetic, History and Geography.

A candidate who has received a collegiate degree, or passed the matriculate examination of a recognized college, or who has a certificate from a normal, high or grammar school, or a teacher's certificate, properly attested, may enter without examination.

Students who have attended one full term in another dental school recognized by the Faculty, or who have attended one or more courses in a reputable medical college will be admitted to the Second Year, subject to the rules governing examinations.\*

Graduates of a recognized medical school will be admitted to the Second-Year Class without examination.

---

\*All applicants for advanced standing must pass the examinations of the years they desire to omit, or furnish proof that they have passed *equivalent* examinations in some recognized dental or medical school.

## GRADUATION.

At the close of the third year, a student who has passed all examinations satisfactorily receives the Degree of Doctor of Dental Surgery (D.D.S.), on the following conditions :

I. He must be of age and of good moral character.

II. He must have passed a satisfactory examination in all the branches of the curriculum, must have attended the practical instruction in all departments, and his last course of instruction must have been at this School.

III. He must have dissected at least two parts, must have performed thoroughly and to the satisfaction of the Professor of Operative Dentistry all the usual dental operations, must have undertaken at least one artificial case, and brought it completed, with the patient, to the Professor of Mechanical Dentistry, thirty days before the close of the term, and must have prepared for presentation to the Professor of Mechanical Dentistry, before the 1st of April, a specimen case to be deposited in the College collection. The operations, as well as the work on the artificial case, must have been performed at the College building.

IV. After notice of having successfully passed the final examination, he must enter his name on the Register of Candidates for the Degree.

V. He must be present at Commencement, unless excused by the Dean of the Faculty.

## TEXT-BOOKS AND WORKS OF REFERENCE.

*On Operative Dentistry and Dental Histology:* Harris' *Principles and Practice*; Tomes's *Dental Surgery*; Taft's *Operative Dentistry*; Tomes's *Dental Anatomy*; Guilford's *Orthodontia*; Farrar's *Irregularities of the Teeth and Their Correction*.

*On Mechanical Dentistry and Metallurgy:* Richardson's *Mechanical Dentistry*; Wildman's *Instruction in Vulcanite Work*; Kingsley's *Oral Deformities*; Essig's *Dental Metallurgy*.

*On Anatomy:* Leidy's *Elementary Treatise on Human Anatomy*; Gray's *Anatomy*.

*Dental Follicle:* Legros and Magitot, translated by M. S. Dean.

*On Chemistry:* Marshall's *First Year Notes*; Medicus *Qualitative Analysis*; Fownes's or Wurtz's *Chemistry*; Wormley's *Micro-Chemistry of Poisons*; Mitchell's *Dental Chemistry*.

*On Physiology:* Foster's *Physiology* with Frey's *Compendium of Histology*; Tyson's *Cell Doctrine*; Yeo's *Physiology*.

*On Materia Medica:* H. C. Wood's *Therapeutics*; Gorgas' *Dental Medicine*; Geo. B. Wood's *Therapeutics*; Wood and Bache's *Dispensatory*.

*On Surgery:* Agnew's *Surgery*; Ashhurst's *Surgery*; Billroth's *Surgical Pathology*.

*On Histology:* Klein's *Histology*; Miller's *Micro-Organisms of the Human Mouth*.

### EXPENSES.

#### WINTER TERM.

##### *First Year.*

Matriculation Fee (paid once only) . . . . .	\$5 00
Tuition Fee . . . . .	100 00

##### *Second Year.*

Tuition Fee . . . . .	\$100 00
Fee for Dissection . . . . .	10 00

##### *Third Year.*

Tuition Fee . . . . .	\$100 00
Graduation Fee . . . . .	30 00

For each additional year . . . . .	\$100 00
------------------------------------	----------

The payment of the \$100 Tuition Fee may be divided as follows: \$50 on entering, and the balance on or before November 1st. If any part is left unpaid after this date, \$10 will be added to the Tuition Fee.

At the beginning of the first year, each student is required to make a deposit of five dollars with the Professor of Chemistry, to cover "breakage" in the chemical laboratories. Any balance remaining is returned. At least twenty-five dollars must be paid on account of tuition, before the student can be admitted to the Chemical Laboratory.

Instruments for the first year can be procured at from \$35 to \$50. A Dental Engine for the second year, costing from \$30 to \$50, will complete the outfit. These instruments will all be required in general practice.

Board can be obtained in Philadelphia for \$4 per week and upward. Further information may be obtained from

JAMES TRUMAN, Dean,  
3243 Chestnut Street, Philadelphia, Pa.

JOHN A. REIMOLD,  
Clerk, University.

The subjoined reports give some conception of the character and of the mass of work performed in the Operative and Mechanical Departments; but the amount of costly material and of careful attention necessary for the insertion of 5,172 gold fillings can be appreciated only by the experienced operator.

The number of patients (7,996) exhibits not only a gratifying confidence in the management of these departments, but also the value of the service to a large class of persons of limited means.

# OPERATIVE DEPARTMENT.

Session of 1890-91.

Number of Patients . . . . . 7,996.

Gold Fillings . . . . .	5,172
Tin Fillings . . . . .	1,415
Cement Fillings . . . . .	1,764
Amalgam " . . . . .	504
Gutta Percha Fillings . . . . .	828
Canal " . . . . .	342
Pulps capped . . . . .	286
" devitalized . . . . .	306
" extracted . . . . .	324
Pulpitis . . . . .	941
Treatment Pulp Canals . . . . .	1,268
Pericementitis . . . . .	138
Alveolar Abscess . . . . .	112
Inflammation of Gums . . . . .	214
Pyorrhœa Alveolaris . . . . .	137
Irregularities Corrected . . . . .	143
Salivary Calculi . . . . .	1,276
Teeth and Roots extracted . . . . .	4,647
Total . . . . .	19,817

Amount of gold used for fillings, and exclusive of that used for plate and crown work in Laboratory, 72 ounces (6 lbs.).

# MECHANICAL DEPARTMENT.

Session of 1890-91.

Full cases . . . . .	360
Partial cases . . . . .	288
Pivot teeth and Crown Work . . . . .	193
Repairing cases . . . . .	59
Regulating " . . . . .	39
Gold Bridge Work . . . . .	42
Total . . . . .	981

## DEGREES IN COURSE.

MAY 1ST, 1891.

*Doctor of Dental Surgery:*

NAME.	POST-OFFICE.	PLACE.
Adamy, W. Lynn,	Union,	New York.
Antoine, Rudolf, M.D.,	Vienna,	Austria.
Arrington, Wm. T., Jr.,	Memphis,	Tennessee.
Barlow, Myron,	Peru,	Massachusetts.
Barnard, George M. C.,	Ware,	Massachusetts.
Barnes, Charles H.,	Philadelphia,	Pennsylvania.
Beers, Arthur H., M.D.,	Montreal,	Canada.
Boennecken, Henry, M.D.,	Berlin,	Germany.
Booker, Warren E.,	Worcester,	Massachusetts.
Borja, Arturo,	Mexico,	Mexico.
Brenizer, William I.,	Akron,	Ohio.
Brown, Oswald M.,	Paris,	Illinois.
Burnett, James R.,	Paris,	Illinois.
Caldwell, Frank L.,	New York,	New York.
Caldwell, Obe B.,	Danville,	Kentucky.
Carpenter, Elliott R.,	Grand Rapids,	Michigan.
Chesebrough, Henry E.,	Glens Falls,	New York.
Chupein, Charles P.,	Philadelphia,	Pennsylvania.
Clearwater, Herbert B.,	Scranton,	Pennsylvania.
Cox, Arthur Brooks,	Sydney,	Australia.
Cregan, William H.,	Ware,	Massachusetts.
Darragh, James S.,	Philadelphia,	Pennsylvania.
Davis, Charles H.,	Tionesta,	Pennsylvania.
Dilts, Charles H.,	Trenton,	New Jersey.
Dreher, Augustus H.,	Mt. Pleasant,	North Carolina.
Fay, Theodore Sedgwick,	Berlin,	Germany.
Fetscherin, Edward,	Nyon,	Switzerland.
Fogg, J. Milton,	Philadelphia,	Pennsylvania.
Frey, George J.,	Buffalo,	New York.
Gibbs, C. Franklin,	Bridgeport,	Connecticut.
Giles, William J.,	Montreal,	Canada.
Green, Edson M.,	Scranton,	Pennsylvania.
Haines, Samuel S.,	Rancocas,	New Jersey.
Haines, William H.,	Cambridge,	Ohio.
Hampe, Karl,	Göttingen,	Germany.
Holder, Thomas,	Hillsboro Br.,	New Hampshire.
Howe, Fred B.,	Ithaca,	New York.
Jacobi, Sidney F.,	Evansville,	Indiana.
Larkin, Edward V.,	Philadelphia,	Pennsylvania.
Laros, Henry M.,	Allentown,	Pennsylvania.
Levkowicz, Marcus W.,	San José,	Costa Rica.
McCall, Frederic W.,	Binghampton,	New York.
McKee, J. Atkinson,	Philadelphia,	Pennsylvania.
MaGuire, Michael,	Tidioute,	Pennsylvania.
Mayer, J. Frederic,	Mauch Chunk,	Pennsylvania.
Miller, Archibald,	Pittston,	Pennsylvania.

Müller, John Henry,	Schaffhausen,	Switzerland.
Naramore, Frank L.,	Anderson,	South Carolina.
O'Connor, Patrick J.,	Pittsburgh,	Pennsylvania.
Ossa, Louis E. de la,	Panama,	U. S. of Col.
O'Sullivan, Richard B.,	St. Andrew's,	Canada.
Paynter, Geo. Janvier,	Philadelphia,	Pennsylvania.
Porter, Alfred H.,	Ballarat,	Australia.
Porter, Frank C.,	London,	England.
Putnam, Leon E.,	Towanda,	Pennsylvania.
Rauch, Louis E.,	Philadelphia,	Pennsylvania.
Rice, Charles A.,	Passaic,	New Jersey.
Rounds, Louie J.,	Union,	New York.
Rüssli, Jacques,	Lucerne,	Switzerland.
Sallada, Earle J.,	Ashland,	Pennsylvania.
Sayres, B. Franklin,	Philadelphia,	Pennsylvania.
Schiffmann, Ernst,	Berne,	Switzerland.
Schwacke, Joseph W.,	Charleston,	South Carolina.
Siddall, William A.,	Oberlin,	Ohio.
Smith, Fred A.,	Frankfort,	New York.
Smith, Julian,	Union,	New York.
Speakman, William C.,	Wilmington,	Delaware.
Stephan, Louis J.,	Milwaukee,	Wisconsin.
Stoppani, Giovanni A.,	Zuoz,	Switzerland.
Tillotson, Charles H.,	Mattoon,	Illinois.
Tinkham, Charles J., Jr.,	Homer,	Illinois.
Townsend, William B.,	Beatty,	Pennsylvania.
Volk, Robert W.,	Pittsfield,	Massachusetts.
Watts, Clarence V.,	Des Moines,	Iowa.
Waugaman, William H.,	Harrison City,	Pennsylvania.
Whitbeck, Theodore H.,	Albany,	New York.
White, Elmer B.,	Ithaca,	New York.
Wilson, C. Herbert,	Philadelphia,	Pennsylvania.
Wiltbank, John C.,	Milton,	Delaware.
Woodbury, George F.,	Miles Grove,	Pennsylvania.

## JUNE 11, 1891.

Adams, Philip W.,	Worcester,	Massachusetts.
Foster, A. Lee,	Philadelphia,	Pennsylvania.
Horter, William B.,	Philadelphia,	Pennsylvania.
Lawton, George A.,	New Haven,	Connecticut.
McCarthy, Thomas A.,	Nashua,	New Hampshire.
Macdonald, Robert,	Brisbane,	Australia.
O'Bourke, John M.,	Trinidad,	Cuba.
Ulrich, George R.,	Selinsgrove,	Pennsylvania.

## SUMMARY.

Australia . . . . .	3	Michigan . . . . .	1
Austria . . . . .	1	New Hampshire . . . . .	2
Canada . . . . .	3	New Jersey . . . . .	3
Connecticut . . . . .	2	New York . . . . .	12
Costa Rica . . . . .	1	North Carolina . . . . .	1
Cuba . . . . .	1	Ohio . . . . .	3
Delaware . . . . .	2	Pennsylvania . . . . .	27
England . . . . .	1	South Carolina . . . . .	2
Germany . . . . .	4	Switzerland . . . . .	5
Illinois . . . . .	4	Tennessee . . . . .	1
Indiana . . . . .	1	U. S. of Colombia . . . . .	1
Iowa . . . . .	1	Wisconsin . . . . .	1
Kentucky . . . . .	1		—
Massachusetts . . . . .	6	TOTAL . . . . .	91
Mexico . . . . .	1		

## IN THE FACULTY OF DENTISTRY.

At the Examination for Degrees, Honorable Mention for averages exceeding 90, to

Oswald M. Brown,  
William C. Speakman,  
William A. Siddall,  
Robert Macdonald,  
C. Herbert Wilson,  
Louis J. Stephan,  
Warren E. Booker,  
George M. C. Barnard,  
John Henry Müller,  
William J. Giles,  
George R. Ulrich,  
Marcus W. Levkowicz,  
Myron Barlow,

Illinois.  
Delaware.  
Ohio.  
Australia.  
Pennsylvania.  
Wisconsin.  
Massachusetts.  
Massachusetts.  
Switzerland.  
Canada.  
Pennsylvania.  
Costa Rica.  
Massachusetts.

# SOCIETY OF THE ALUMNI OF THE DEPARTMENT OF DENTISTRY OF THE UNIVERSITY OF PENNSYLVANIA.

The object of this Society is to sustain and advance the interests and influence of the Department of Dentistry by promoting sentiments of general brotherhood and amity among its graduates, and by aiding in all efforts to elevate the standard of Dental education and extending the progress of Dental science and art.

Any graduate in good standing, who will conduct himself as

required by the Code of Ethics, may become a member of this Society by signing the Constitution, and paying the Treasurer the sum of one dollar.

Any member who shall pay into the Treasury the sum of five dollars, or who shall for five years pay into the Treasury the sum of one dollar yearly, shall become a life member and be entitled to a membership certificate.

The Annual Meeting is held on the day previous to Commencement, and is followed in the evening by the Annual Collation.

Every member receives a copy of the proceedings of the Annual Meeting of the Society.

It is urgently requested that as many as possible of the Alumni of the Department of Dentistry of the University of Pennsylvania will avail themselves of the opportunity to join the organization, as an increased membership will greatly strengthen the Society and advance its objects.

#### OFFICERS FOR 1891-92.

*President*—BENJAMIN F. PLACE, D.D.S., Norristown, Pa.

*Vice-Presidents*—GRAFTON MUNROE, D.D.S., Springfield, Ill.

W. JARVIE TURNER, D.D.S., Brooklyn, N. Y.

WILLIAM H. TROUT, D.D.S., Lancaster, Pa.

*Secretary and Treasurer*—WILLIAM L. WINNER, D.D.S., 309 North Sixth St., Philadelphia, Pa.

*Corresponding Secretary*—HARRY B. MCFADDEN, D.D.S., 3505 Hamilton St., Philadelphia, Pa.

*Orator*—OWEN J. EAGAN, D.D.S., Fall River, Mass.

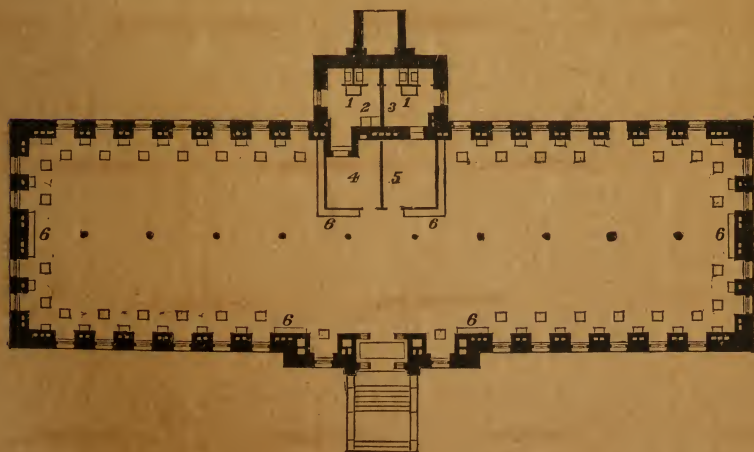
*Chairman of Executive Committee*—CHARLES A. E. CODMAN, D.D.S., 1308 Walnut St., Philadelphia, Pa.

*Alumni are requested to send to the Secretary of the Society of the Alumni notice of change of residence or other information likely to be of service to the Society.*





BUILDING ERECTED FOR THE ACCOMMODATION OF THE DENTAL, OPERATIVE  
CLINICS AND CHEMICAL LABORATORIES.



PLAN OF DENTAL, OPERATING ROOM.



3 0112 105900002



LEVYTYPE CO.

VETERINARY DEPARTMENT OF THE UNIVERSITY OF PENNSYLVANIA.

For Catalogue of the Veterinary Department, address DR. JOHN MARSHALL, DEAN, 36th and Pine Streets, Philadelphia, Pa.